

1 **(BSP January 27, 2003)**

2 **Mixing Polyester Concrete**

3 Polyester concrete shall be mixed in mobile mixers conforming to Section 6-09.3(1)  
4 as supplemented in these Special Provisions, and in accordance with the mix  
5 design approved by the Engineer.  
6

7 The polyester resin binder in the polyester concrete shall be approximately 12  
8 percent by mass of the dry aggregate. The Contractor shall determine the exact  
9 percentage as approved by the Engineer.  
10

11 The amount of peroxide initiator used shall result in a polyester concrete set time  
12 between 30 and 120 minutes during placement as determined by California Test  
13 551, Part 2, "Method of Test For Determination of Set Time of Concrete Overlay  
14 and Patching Materials", by Gilmore Needles. Accelerators or inhibitors may be  
15 required as recommended by the polyester resin binder supplier and as approved  
16 by the Engineer.  
17

18 The polyester resin binder shall be initiated and thoroughly blended just prior to  
19 mixing the aggregate and binder. The polyester concrete shall be thoroughly mixed  
20 prior to placing.